

~~RESTRICTED~~  
Security Information

TAB C

26 August 1953

**PRINCIPAL FACTORS WHICH INFLUENCE SCIENTIFIC PROGRESS**

All Special Subjects of Study by Scientific Resources Division/SI

1. National Support of Science and Engineering

Includes: Position of Science in the national culture.  
National appreciation of science.  
Monetary support for facilities.  
Salaries and other incentives for scientists and engineers.

2. Organization of Science and Control of Scientific Research

Includes: Academies, Ministries, Institutes, etc.  
Methods for programming and control of scientific research.

3. Effect of Political Pressures

(Note: Varies greatly between sciences)

4. Scientific and Engineering Education

At levels of Secondary School, Technicum, VUZ, Kandidat, and Post Doctorate.

Includes: Study of curricula, textbooks, examinations, etc.

5. Quantity of Scientific and Engineering Manpower

Includes: Numbers graduating yearly.  
Numbers having higher degrees in different sciences.  
Numbers of scientific workers.

6. Quality of Scientific and Engineering Manpower

Includes: Average quality.  
Quality of scientific leaders.

(Quality is evidently the resultant of Item 1, 3, and 4 among other factors.)

NOTE: The reverse of this picture, namely the effect of science on the culture, and on the economic and military capability of a country are treated in a separate memorandum dated 26 August 1953.